Objective

By the end of this lesson, you will be able to understand the rock cycle and explain the processes involved in the formation of different types of rocks.

Materials and Prep

- Pen and paper
- Computer or tablet for research
- Basic understanding of the three types of rocks: igneous, sedimentary, and metamorphic

Activities

- **Rock Cycle Diagram:** Draw a diagram of the rock cycle showing the processes of formation for each type of rock.
- **Rock Classification:** Collect different types of rocks from your surroundings and classify them into igneous, sedimentary, or metamorphic.
- **Virtual Rock Hunt:** Use online resources to virtually explore different rock formations around the world and identify the types of rocks present.

Talking Points

- **What is the Rock Cycle?**
  "The rock cycle is a continuous process that involves the formation, breakdown, and reformation of rocks over time."
- **Types of Rocks:**
  "There are three main types of rocks: igneous, sedimentary, and metamorphic, each formed through different processes."
- **Formation of Igneous Rocks:**
  "Igneous rocks are formed from the cooling and solidification of magma or lava."
- **Formation of Sedimentary Rocks:**
  "Sedimentary rocks are created through the accumulation and cementation of sediments over time."
- **Formation of Metamorphic Rocks:**
  "Metamorphic rocks are formed from the alteration of existing rocks due to high pressure and temperature."
- **Rock Cycle Importance:**
  "Understanding the rock cycle helps us learn about Earth's history and how different geological processes shape our planet."